

WHAT IS CLAIMED IS:

1. A wireless headset with a Bluetooth™ module, comprising:

a microphone supporting member having a microphone installed therein and a
connector for connecting the microphone supporting member to a main body of the
wireless headset in such a manner that the microphone supporting member can be folded
to or unfolded from the main body of the wireless headset;

a sensing device for determining whether the microphone supporting member is
folded or unfolded; and

a controller connected to the sensing device and the Bluetooth™ module, for
connecting, using the Bluetooth™ module, a link between the wireless headset and a
master terminal registered in the wireless headset if it is determined that the microphone
supporting member is unfolded.

2. The wireless headset as claimed in claim 1, wherein the microphone
supporting member is attached to the main body of the wireless headset in a hinge
structure.

3. A wireless headset with a Bluetooth™ module, comprising:

a microphone supporting member having a microphone installed therein and
being able to be folded to or unfolded from a main body of the wireless headset;

a sensing device for determining whether the microphone supporting member is
folded or unfolded; and

a controller connected to the sensing device and the Bluetooth™ module for
registering an ID (identification) of the wireless headset in a counterpart terminal through
the Bluetooth™ module if it is determined that the microphone supporting member is
unfolded.

4. The wireless headset as claimed in claim 3, wherein the microphone
supporting member is attached to the main body of the wireless headset in a hinge
structure.

5. A Bluetooth™ wireless communication link automatic connection method for a wireless headset comprising a Bluetooth™ module, a microphone supporting member having a microphone installed therein and being able to be folded to or unfolded from a main body of the wireless headset, and a sensing device for detecting whether the microphone supporting member is folded or unfolded, the method comprising the steps of:

attempting, by the wireless headset, to establish a link between the wireless headset and a master terminal registering therein an ID of the wireless headset, if it is detected that the microphone supporting member is unfolded; and

connecting, by the master terminal, the link in response to the link connection attempt by the wireless headset.

6. A Bluetooth™ wireless communication link automatic connection method for a wireless headset comprising a Bluetooth™ module, a microphone supporting member having a microphone installed therein and being able to be folded to or unfolded from a main body of the wireless headset, and a sensing device connected to a connector of the microphone supporting member and sensing whether the microphone supporting member is folded or unfolded, the method comprising the steps of:

attempting, by the wireless headset, to register an ID of the wireless headset in a counterpart terminal with a Bluetooth™ module, if the microphone supporting member is unfolded; and

registering, by the counterpart terminal, the ID of the wireless headset in the counterpart terminal in response to the ID registration attempt by the wireless headset.

7. A Bluetooth™ wireless communication link automatic connection method for a wireless headset comprising a Bluetooth™ module, a microphone supporting member having a microphone installed therein and being able to be folded to or unfolded from a main body of the wireless headset, and a sensing device connected to a connector of the microphone supporting member and sensing whether the microphone supporting member is folded or unfolded, the method comprising the steps of:

transmitting a link connection request message from the wireless headset to a master terminal registering therein an ID of the wireless headset, if the microphone supporting member is unfolded;

transmitting a link connection response message from the master terminal to the wireless headset in response to the link connection request message; and

connecting a link between the wireless headset and the master terminal after the wireless headset receives the link connection response message.

8. A Bluetooth™ wireless communication link automatic connection method for a wireless headset comprising a Bluetooth™ module, a microphone supporting member having a microphone installed therein and being able to be folded to or unfolded from a main body of the wireless headset, and a sensing device electrically connected to a connector of the microphone supporting member and sensing whether the microphone supporting member is folded or unfolded, the method comprising the steps of:

receiving a link connection request message from a master terminal registering therein an ID of the wireless headset; and

transmitting a link connection response message to the master terminal if the microphone supporting member is unfolded.

9. A Bluetooth™ wireless communication link automatic connection method for a wireless headset comprising a Bluetooth™ module, a microphone supporting member having a microphone installed therein and being folded to or unfolded from a main body of the wireless headset, and a sensing device connected to a connector of the microphone supporting member and sensing whether the microphone supporting member is folded or unfolded, the method comprising the steps of:

transmitting an ID message of the wireless headset from the wireless headset to a counterpart Bluetooth™ wireless communication terminal if the microphone supporting member is unfolded; and

registering, by the counterpart Bluetooth™ wireless communication terminal, an ID of the wireless headset in the counterpart Bluetooth™ wireless communication

terminal in response to the ID message and transmitting an ID registration completion message to the wireless headset.

10. The method as claimed in claim 9, further comprising the steps of:

5 transmitting a link connection request message from the wireless headset to the counterpart Bluetooth™ wireless communication terminal; and

connecting a link between the wireless headset and the counterpart Bluetooth™ wireless communication terminal by transmitting a link connection response message from the counterpart Bluetooth™ wireless communication terminal to the wireless headset in response to the link connection request message.

11. A wireless headset for local wireless master/slave communication, comprising:

15 a microphone supporting member having a microphone installed therein and a connector for connecting the microphone supporting member to a main body of the wireless headset in such a manner that the microphone supporting member can be folded to or unfolded from the main body of the wireless headset;

a sensing device for determining whether the microphone supporting member is folded or unfolded; and

20 a controller connected to the sensing device, for connecting a link between the wireless headset and a master terminal registered in the wireless headset if it is determined that the microphone supporting member is unfolded.